

Functions list in Vector.h and their Feature:

1. **clear ()**: It clears all the content in vector.
2. **push_back (value)**: adds element at end of vector.
3. **push_front (value)**: adds element at start of vector.
4. **pop_back ()**: Removes element form end of vector.
5. **pop_front ()**: Removes element from start of vector.
6. **at (index)**: this function returns value at a specific index in vector.
Also, can be used to assign value at a specific index. Works like [] operator.
7. **insert (index, value)**: this function inserts element after specific index in vector.
8. **remove(value)**: removes first occurrence of a specific value from vector.
9. **set_size(size)**: sets size of an empty vector
10. **empty ()**: this function checks if vector is empty or not.
(Returns 1 if empty and 0 if not empty)
11. **size ()**: returns size of vector
12. **search(value)**: searches for a specific value in vector and returns its index if found else -1.
13. **printList ()**: prints the whole vector.
14. **sort ()**: sorts the whole vector.
15. **resize(size)**: sets size of vector to specified by user. It can be increasing or decreasing. Deletes extra elements.
16. **rotate (moves)**: rotates the elements of whole vector for moves given by user. Moves can be increasing or decreasing.
17. **find (value)**: finds a specific value in vector and returns pointer to it if found else nullptr.

18. **count (value):** returns number of occurrences of an element in vector.
19. **binarysearch (value):** binary searches a value in vector. If found returns its index else -1.
20. **copy (vector):** copies one vector to the calling one.
21. **in (value):** returns 1 if value is in the vector else 0.
22. **unique ():** removes all duplicate elements in vector.
23. **begin ():** returns pointer to first index of vector.
24. **end ():** returns pointer to last index of vector.
25. **front ():** returns the value at first index.
26. **back ():** returns value at last index of vector.